CS 4133/5133
Data Networks

Instructor
Dr. Mohammed Atiquzzaman
School of Computer Science, Room DEH 250
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Office Hours: Monday and Wednesday: 9.30 PM – 10.30 PM, or by appointment

Teaching Assistant
TBA

Course Description
This course provides a comprehensive treatment of the data networking principles including layered protocol design and their functions, tools for performance analysis, multi-access communication, routing and flow control.

Course Focus
This course focuses on obtaining a broad picture about the different types of computer networks, grasp the concept of layers in computer networks, acquire the fundamental concepts of the Internet and TCP/IP protocol, and acquire knowledge about performance evaluation techniques for computer networks.

Prerequisite
CS 3113, and Engr 3293 or Math 4753 are prerequisites for CS 4133. CS 3113 or CS 5004 or permission of instructor is prerequisite for CS 5133. Any student who has not completed at least one of these prerequisite courses (as stated in the University of Oklahoma catalog) will be subject to administrative withdrawal at any time before final grades are released.

Texts and References
• Notes will be available on the web through D2L course management system
• Additional references, if needed, will be provided by the instructor.

Computer Usage
General office software and computer simulation software may be used. Selected course material will be delivered via D2L. If you have any difficulty in accessing D2L, please contact Course Management Support line at 325-7010 or web-courses@ou.edu

Student Contributions
Lecture attendance is crucial in this class. Each student will take a midterm exam and a comprehensive final exam. Homeworks and projects will be assigned during the semester. There is no make up exam, except in the case of emergencies.

Electronic submission of projects is planned. Working together on out-of-class assignments and projects is encouraged, but all submitted work must reflect each student's understanding, and all documents/submissions must be developed independently. Assignments are due at the beginning of class, but a 24-hour grace period may be granted to allow for last minute difficulties.

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**Course Evaluation**

Exams, homeworks and project will be used to assess each student's progress towards meeting the stated course goals. The points will be distributed as follows:

<table>
<thead>
<tr>
<th>Component</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Homework</td>
<td>15</td>
</tr>
<tr>
<td>Projects</td>
<td>30</td>
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<tr>
<td>Midterm Exam</td>
<td>25</td>
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<tr>
<td>Comprehensive Final Exam</td>
<td>30</td>
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Final grades will be determined on the total points obtained as follows:

- $A \geq 90$, $80 \leq B < 90$, $70 \leq C < 80$, $60 \leq D < 70$

Graduate students may not receive a grade of D

**Course Schedule**

This course meets in Devon Hall 120 on Mondays and Wednesdays from 4:30 – 5:45 PM.

**Students with Disabilities**

Any student in this course who has a disability that may prevent him or her from fully demonstrating his or her abilities should contact me personally as soon as possible so we can discuss accommodations necessary to ensure full participation and facilitate your educational opportunities.

**Religious Holidays**

It is the policy of the University to excuse absences of students that result from religious observances and to provide without penalty for the rescheduling of examinations and additional required classwork that may fall on religious holidays. Any student in this course who plans to observe a religious holiday which might conflict with course requirements should contact me personally as soon as possible so we can make appropriate arrangements.

**Academic Integrity**

All work submitted for an individual grade, such as homework and projects should be the work of that single individual, not their friends or their tutor. Students who fail to do their own work not only violate the Code of Conduct for the University of Oklahoma, but also may fail to learn critical learning objectives for the class.

1. Do not show another student a copy of your homework or projects before the submission deadline.
2. Do not email your project to another student, even if they promise they will not copy it.
4. Make sure that your computer account is properly protected. Use a good password, and do not give your friends access to your account or your computer system.
5. Do not leave thumb drives around a laboratory where others might access them.
3. The penalties for knowingly permitting your work to be copied are the same as the penalties for copying someone else’s work.

Upon the first documented occurrence of collaborative work, I will report the academic misconduct to the Campus Judicial Coordinator. The procedure to be followed is documented in the University of Oklahoma Academic Misconduct Code. In the unlikely event that I elect to
admonish the student, the appeals process is described at http://integrity.ou.edu/summary_of_the_process.html

Rights and responsibilities under the academic misconduct code, University of Oklahoma Norman Campus can be found here: http://www.ou.edu/provost/integrity-rights/

Adjustments for Pregnancy/Childbirth Related Issues:
Should you need modifications or adjustments to your course requirements because of documented pregnancy-related or childbirth-related issues, please contact me as soon as possible to discuss. Generally, modifications will be made where medically necessary and similar in scope to accommodations based on temporary disability. Please see www.ou.edu/content/eoo/pregnancyfaqs.html for commonly asked questions.

Title IX Resources:
For any concerns regarding gender-based discrimination, sexual harassment, sexual misconduct, stalking, or intimate partner violence, the University offers a variety of resources, including advocates on-call 24.7, counseling services, mutual no contact orders, scheduling adjustments and disciplinary sanctions against the perpetrator. Please contact the Sexual Misconduct Office 405-325-2215 (8-5) or the Sexual Assault Response Team 405-615-0013 (24.7) to learn more or to report an incident.

Student ratings:
The College of Engineering utilizes student ratings as one of the bases for evaluating the teaching effectiveness of each of its faculty members. The results of these forms are important data used in the process of awarding tenure, making promotions, and giving salary increases. In addition, the faculty uses these forms to improve their own teaching effectiveness. The original request for the use of these forms came from students, and it is students who eventually benefit most from their use. Please take this task seriously and respond as honestly and precisely as possible, both to the machine-scored items and to the open-ended questions.